

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A digital camera comprising:

an image-capturing device that captures a subject image having passed through a taking lens and outputs image data;

~~_____ a memory device in which image data of at least one frame of an image captured by said image capturing device is temporarily stored;~~

~~_____ a recording processing circuit that performs recording processing on image data stored in said memory device;~~

a first image processing circuit that first performs pre-treatment on image data corresponding to N lines X M rows output by said image-capturing device ~~in units of individual lines in line sequence to store~~ recreate a first image data ~~of one frame in said memory device; and~~

~~_____ a first memory device in which the first image data is temporarily stored;~~

a second image processing circuit that performs format processing appropriate for recording ~~performed at said recording processing circuit~~ processing on the first image data ~~having undergone said pre-treatment before the image data of one frame is stored in said first memory device, in~~ device in units of blocks each ranging over n lines X m rows ($N > n$, $M > m$, n and m each are equal to or greater than 2) in block sequence, so as to create a second image data; and

~~_____ a recording processing circuit that performs recording processing on the second image data.~~

2. (Previously Presented) A digital camera according to claim 1, wherein:

said recording processing circuit is constituted of a compression circuit that compresses the image data.

3. (Previously Presented) A digital camera according to claim 1, wherein:

said pre-treatment includes gamma correction and white balance correction, and said format processing includes interpolation processing, LPF processing, BPF processing and color difference signal calculation processing.

4. (Currently Amended) A ~~storage~~recording medium ~~for that stores an image~~ processing ~~having a program, stored therein that executes the image processing program~~ comprising:

~~storing processing in which image data of at least one frame of image captured by an image capturing device is temporarily stored in a memory device;~~

~~format processing in which image data of the image captured at the image capturing device are formatted for recording;~~

~~various types of pre-treatment implemented prior to said format processing; and~~

~~recording processing in which image data having undergone said format processing are recorded, wherein:~~

~~during said a first image processing instruction in which pre-treatment, line sequence signal processing is performed on image data corresponding to N lines X M rows in units of individual lines to store image data of one frame in said memory device, and of image data captured by an imaging device, in line sequence to create a first image data;~~

~~a storing instruction in which the first image data is temporarily stored in a first memory device;~~

~~during the a second image processing instruction in which format processing, block sequence signal processing is performed on the image data of one frame, which have undergone said pre-treatment before storing of the image data of one frame in said appropriate for recording processing on the first image data stored in the first memory device, in units of~~

blocks each ranging over n lines \times m rows ($N > n$, $M > m$, n and m each are equal to or greater than 2) in block sequence, so as to create a second image data; and

a recording processing instruction in which recording processing on the second image data is performed.

5. (Currently Amended) A ~~storage~~recording medium ~~for image processing~~ according to claim 4, wherein:

said recording processing is compression processing in which the second image data are compressed.

6. (Currently Amended) A ~~storage~~recording medium ~~for image processing~~ according to claim 4, wherein:

said pre-treatment includes gamma correction and white balance correction and said format processing includes interpolation processing, LPF processing, BPF processing and color difference signal calculation processing.

7. (Previously Presented) A digital camera comprising:
an image-capturing device that captures a subject image having passed through a taking lens and outputs image data;

a recording processing circuit that performs recording processing on image data;
and

an image processing circuit that, with the image data output by said image-capturing device input as data corresponding to n lines \times m rows, calculates a color difference signal based upon the image data thus input, performs interpolation processing and low pass filtering processing simultaneously on said color difference signal using filter coefficients for interpolation/low pass filtering and then performs matrix processing appropriate for recording performed at said recording processing circuit to generate a formatted signal.

8. (Previously Presented) A digital camera according to claim 7, wherein:

said recording processing circuit is constituted of a compression circuit that compresses the image data.

9. (Previously Presented) A storage medium for image processing having a program stored therein that executes:

format processing to format image data of an image captured at an image-capturing device for recording, in which color difference signals corresponding to n lines \times m rows are calculated using image data that are input, interpolation processing and low pass filtering processing are performed simultaneously on the color difference signals corresponding to n lines \times m rows using filter coefficients for interpolation/low pass filtering and then a formatted signal is generated by implementing matrix processing; and

recording processing in which image data having undergone said format processing are recorded.

10. (Previously Presented) A storage medium for image processing according to claim 9, wherein:

said recording processing is compression processing in which said image data are compressed.

11. (Currently Amended) A digital camera comprising:

an image-capturing device that captures a subject image having passed through a taking lens and outputs image data;

~~_____ a memory device in which image data of at least one frame of image captured by said image-capturing device is temporarily stored;~~

a first image processing circuit that first performs pre-treatment on image data corresponding to N lines \times M rows output by said image-capturing device ~~in units of individual~~

lines in line sequence to ~~store image data of one frame in said memory device; and~~ create a first image data;

a memory device in which the first image data is temporarily stored;

a second image processing circuit that performs image processing including ~~data~~ format processing appropriate for data compression on the first image data ~~of the one frame~~ output by stored in said memory device, so as to create a second image data; and

a compression circuit that compresses the second image data, ~~output by said~~ second image processing circuit; wherein:

said second image processing circuit engages in median processing on the first image data, which have undergone the pre-treatment, ~~before storing of the image data of one frame in said memory device;~~ corresponding to an $n \times m$ pixel area block during said format processing, wherein $N > n$, $M > m$, and n and m each are equal to or greater than 2.

12. (Currently Amended) A digital camera according to claim 11, wherein:

said median processing is performed on $(n-i) \times (m-j)$ sets of image data extracted from the first image data corresponding to said $n \times m$ pixel area.

13. - 39. (Cancelled)

40. (New) A digital camera according to claim 1, further comprising:

a second memory device in which the second image data is temporarily stored, wherein the recording processing circuit performs the recording processing on the second image data stored in the second memory device.

41. (New) A digital camera according to claim 40, wherein:

the first memory device and the second memory device are the same memory device.

42. (New) A digital camera according to claim 1, wherein:
the first memory device temporarily stores at least one frame of the first image data.
43. (New) A digital camera according to claim 1, wherein:
the format processing includes a median processing on the first image data, which have undergone the pre-treatment, corresponding to an $x \times m$ pixel area block.
44. (New) A digital camera according to claim 43, wherein:
the median processing is performed on $(n-i) \times (m-j)$ sets of image data extracted from the first image data corresponding to the $n \times m$ pixel area.
45. (New) A digital camera according to claim 1, wherein:
the image capturing device captures a subject image to output an analog imaging signal and includes an A/D converter that converts the analog imaging signal to the image data that is digital.
46. (New) A digital camera according to claim 2, wherein:
the second image processing circuit creates brightness data represented by $(n-i_1)$ lines \times $(m-j_1)$ rows of image data and a color difference data represented by $(n-i_2)$ lines \times $(m-j_2)$ rows of image data, based upon a partial image data with n lines \times m rows of the first image data, and
both the brightness data and the color difference data are appropriate for compression performed in the compression circuit.